

## FIX-N-FAX #60

### CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION

No. 60

Date: July 1971

Revised: March 1984

#### **International Spark Plug Cable Routing and Cylinders (Crossfire Prevention - V304, V345, V392, MV404 Engines)**

Spark plug cables, on subject engines, are routed in manufacturing in a manner which eliminates the possibility of inducing cylinder crossfire. When service of subject engines requires moving spark plug cables, insure cables are rerouted as illustrated in the attached drawings.

If spark plug cables are improperly routed, the possibility of a cylinder crossfire is increased. Cylinder crossfire can cause preignition resulting in piston burning and/or valve damage.

If a piston or valve failure occurs, it is recommended that the spark plug cable routing be inspected.

It is important that the above procedures be adhered to during the reconditioning of cylinder heads, and when major tune-up work is performed.

It should also be noted that engine firing order and spark plug cable routing differs between engine families.

As part of this Fix-N-Fax, included are drawings of correct routing for subject engines.

(see next page)

ENGINE  
FIRING ORDER:  
1-8-4-3-6-5-7-2

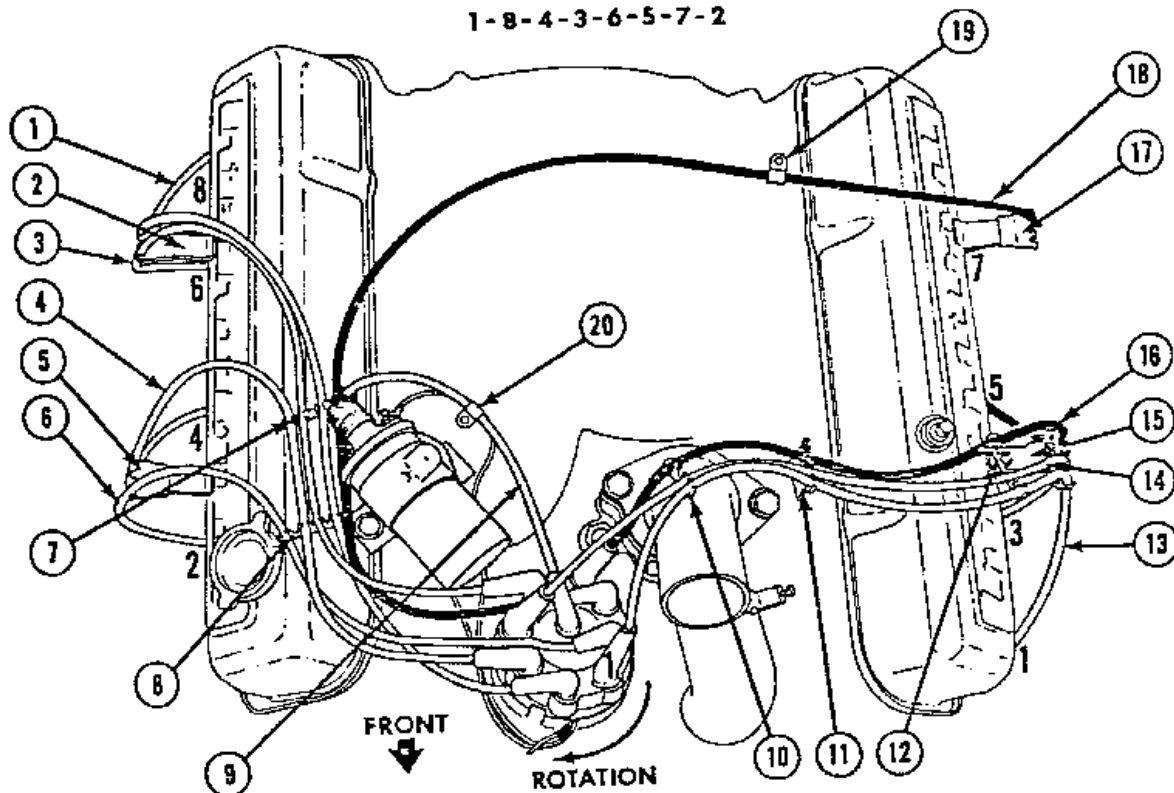


FIGURE 1 - Spark Plug Cable Route for V-304, V-345 and V-392

Legend For Figure 1

- |  |  |
|--|--|
| 1. CABLE ASS'Y, Distributor to Spark Plug (No. 8 Cyl)                                | 10. RETAINER, Spark Plug Wire (369603C1) w/V-304, V-345 (369603C1) w/V-392 |
| 2. RETAINER, Spark Plug Wire   | 11. RETAINER, Spark Plug Wire  |
| 3. CABLE ASS'Y, Distributor to Spark Plug (No. 6 Cyl)                                | 12. RETAINER, Spark Plug Wire  |
| 4. CABLE ASS'Y, Distributor to Spark Plug (No. 4 Cyl)                                | 13. CABLE ASS'Y, Distributor to Spark Plug (No. 1 Cyl)                     |
| 5. RETAINER, Spark Plug Wire   | 14. CABLE ASS'Y, Distributor to Spark Plug (No. 3 Cyl)                     |
| 6. CABLE ASS'Y, Distributor to Spark Plug (No. 2 Cyl)                                | 15. RETAINER, Spark Plug Wire  |
| 7. RETAINER, Spark Plug Wire   | 16. CABLE ASS'Y, Distributor to Spark Plug (No. 5 Cyl)                     |
| 8. RETAINER, Spark Plug Wire   | 17. RETAINER, Spark Plug Wire  |
| 9. CABLE ASS'Y, Distributor to Cofl (Old Style, 497590C91)* (New Style, 17005606C91) | 18. CABLE ASS'Y, Distributor to Spark Plug (No. 7 Cyl)                     |
|  | 19. RETAINER, Spark Plug Wire (Loadstar Only)                              |
|  | 20. CLIP (Scout Only)  |

ENGINE FIRING ORDER  
1-2-7-3-4-5-6-8

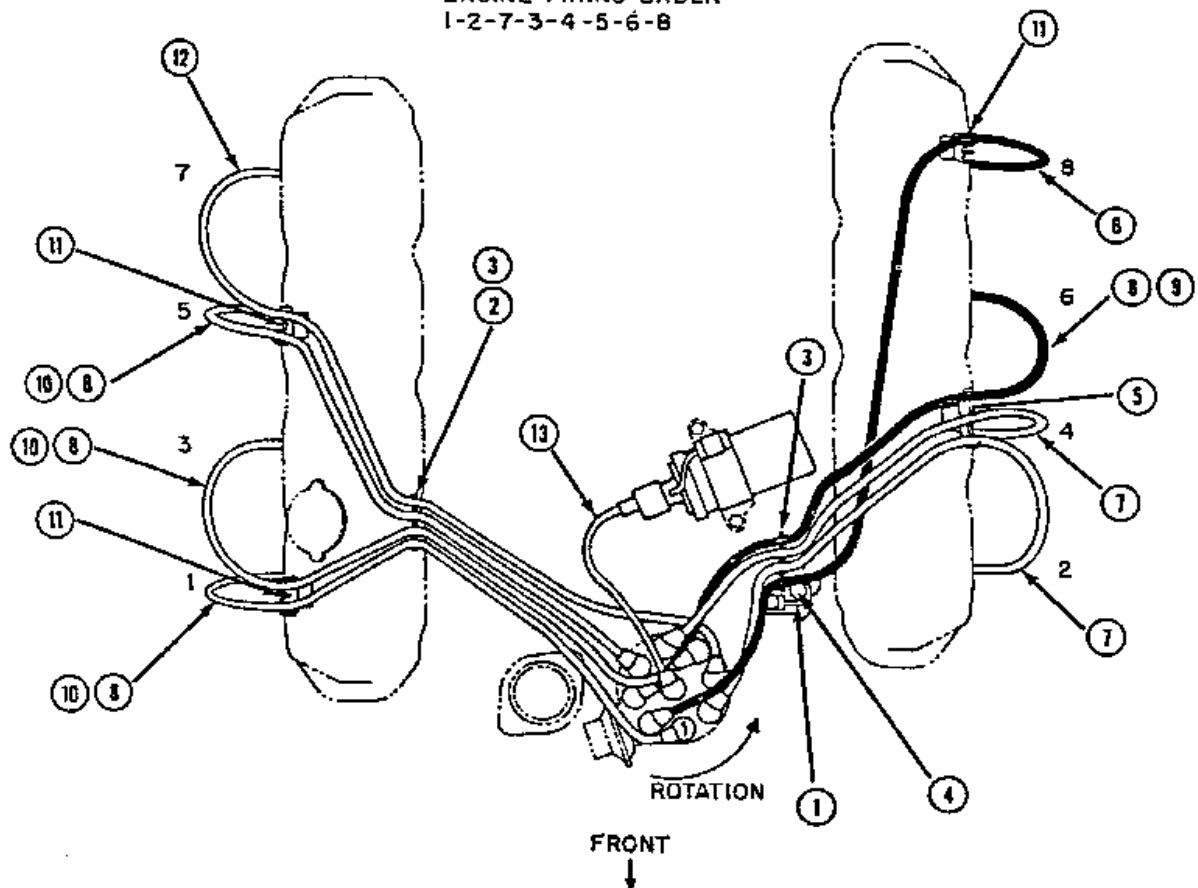


FIGURE 2 - Spark Plug Cable Route for MV-404 and MV-446

Legend For Figure 2

- |   |  |
|---|--|
| 1. BRACKET, Spark Plug Wire   | 9. CABLE ASSEMBLY, No. 6<br>Plug to Distributor<br>(487825C91) w/Prestolite<br>Only                  |
| 2. EXTENSION, Cable Retainer<br>(Use Cover Mounting Bolt)   | 10. CABLE ASSEMBLY, No. 1, 3<br>& 5 Plug to Distributor<br>(487824C91) w/Prestolite<br>Only          |
| 3. RETAINER, 4 Wire   | 11. RETAINER, 2 Wire<br>Holley and Prestolite  |
| 4. WASHER, .375 Lock and Bolt<br>HH .375 - 16 UNC .75   | 12. CABLE ASSEMBLY, No. 7<br>Plug to Distributor<br>(446774C94) w/Holley<br>(487826C91) w/Prestolite |
| 5. RETAINER, 3 Wire   | 13. CABLE ASSEMBLY,<br>Distributor to Coil<br>(Old Style, 487812C91)<br>(New Style, 1700505C91)*     |
| 6. CABLE ASSEMBLY, No. 8<br>Plug to Distributor<br>(446775C94) w/Holley<br>(487827C91) w/Prestolite     |  |
| 7. CABLE ASSEMBLY, No. 2 & 4<br>Plug to Distributor<br>(446772C94) w/Holley<br>(487823C91) w/Prestolite |  |
| 8. CABLE ASSEMBLY, No. 1, 3,<br>5 & 6 Plug to Distributor<br>(446771C94) w/Holley Only                  |  |

(see FIX-N-FAX INDEX)